

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) Extruded profiled element based on a cross-linkable rubber composition, the ~~said~~ profiled element ~~being intended to constitute~~ constituting in the cross-linked condition a tread for a tyre and being delimited in width by two lateral faces which ~~connect to one another~~ interconnect radially inner and outer faces of the ~~said~~ tread, conducting means being provided in the ~~said~~ profiled element to connect the ~~said~~ inner face electrically to the ~~said~~ outer face between the ~~said~~ lateral faces and all along the length of the ~~said~~ profiled element, the remainder of the profiled element ~~being based on~~ comprising an electrically insulating material, characterized in that the ~~said~~ conducting means, viewed in a cross-section of the ~~said~~ profiled element, have a layered structure comprising electrically conducting layers which are ~~essentially~~ generally concentric and have a curvature towards at least one of the ~~said~~ inner and outer faces, and at least one of the ~~said~~ layers emerges at the surface of the ~~said~~ outer face.

2. (Currently Amended) Extruded profiled element according to Claim 2, characterized in that the ~~said~~ electrically conducting layers, viewed in a cross-section of the ~~said~~ profiled element, describe a plurality of turns essentially around the longitudinal axis of symmetry of the ~~said~~ profiled element.

3. (Currently Amended) Extruded profiled element according to Claim 2, characterized in that the ~~said~~ electrically conducting layers are globally wound in a spiral around the ~~said~~ longitudinal axis and, viewed in a cross-section of the ~~said~~ profiled element, the ~~said~~ layers have essentially the shape of an arc of a flattened ellipse whose major axis corresponds to the transverse direction of the ~~said~~ profiled element.

4. (Currently Amended) Extruded profiled element according to Claim 2, characterized in that the ~~said~~ electrically conducting layers, along the length of the profiled element, have a filamentary shape comprising a plurality of helicoidal filaments ( $F_j$  ( $j = 1$  to  $m$ )) which are centered on the ~~said~~ axis.

5. (Currently Amended) Extruded profiled element according to Claim 4, characterized in that along the length of the profiled element, the ~~said~~ filamentation comprises a succession of identical sections ( $T_i$  ( $i = 1$  to  $n$ )) each ~~consisting of~~ comprising a plurality of conical filaments ( $F_j$  ( $j = 1$  to  $m$ )) inscribed on cone sections substantially parallel to one another and centered on the ~~said~~ axis ( $X'X$ ).

6. (Currently Amended) Extruded profiled element according to Claim 5, characterized in that each conical filament ( $F_j$ ) of each of the ~~said~~ sections ( $T_i$ ) is inscribed on a cone section that converges towards the inside of the cone section on which the same conical filament ( $F_j$ ) of an immediately consecutive section ( $T_{i+1}$ ) is inscribed.

7. (Currently Amended) Extruded profiled element according to Claim 6, characterized in that the ~~said~~ electrically conducting layers, viewed in a cross-section of the ~~said~~ profiled element, describe a number of turns ~~essentially between 30 and 70~~ generally in the range of 30 to 70.

8. (Currently Amended) Extruded profiled element according to Claim 7, characterized in that the ~~said~~ electrically conducting layers each have a thickness ~~essentially between~~ substantially in the range of 0.05 to 0.15 mm.

9. (Currently Amended) Extruded profiled element according to Claim 1, characterized in that at least one of the ~~said~~ electrically conducting layers emerges at the surface of one or of each lateral face of the ~~said~~ profiled element.

10. (Currently Amended) Extruded profiled element according to Claim 1, characterized in that the ~~said~~ conducting means also comprise a conducting film at the location of one or of each lateral face of the ~~said~~ profiled element.

11. (Currently Amended) Extruded profiled element according to Claim 1, characterized in that the ~~said~~ conducting means ~~consist of~~ comprises a rubber composition containing carbon black or the reinforcing filler and having an electrical resistivity lower than  $10^8 \Omega \cdot \text{cm}$ .

12. (Currently Amended) Extruded profiled element according to Claim 1, characterized in that the ~~said~~ conducting means ~~consist of~~ comprises a rubber composition based on at least one diene elastomer comprising an inorganic reinforcing filler as the reinforcing filler and a conducting ionic solution comprising:

- a polyether which is a copolymer of oxyethylene and oxypropylene containing a majority of oxyethylene units, preferably in an amount between 20 and 50 phr (phr: parts by weight per 100 parts of the elastomer(s)),
- an ionic salt of a monovalent or divalent metal, such as lithium perchlorate or zinc dichloride, preferably in an amount between 5 and 30 phr, and
- a polar solvent, such as polypropylene glycol carbonate, preferably in an amount between 5 and 15 phr.

13. (Currently Amended) Extruded profiled element according to Claim 12, characterized in that the ~~said~~ polyether has an inherent viscosity, measured at 25°C in toluene, which is higher than 4 dl/g.

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Currently Amended) Cross-linkable or cross-linked tread for a tire,  
~~characterized in that it consists of~~ comprising an extruded profiled element according  
to Claim 1.

18. (Original) ~~Tire, characterized in that it comprises~~ A tire comprising a  
cross-linked tread according to Claim 17.

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)